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Amendments to the Claims:

1. (original) A method of protecting selected portions of a metal substrate from chemical exposure, comprising:

applying a maskant coating composition to at least a portion of the surface of a metal substrate, the maskant composition being radiation curable and substantially solvent-free; exposing the coated substrate to actinic radiation to cure the maskant composition and form a cured peelable maskant film adhered to the metal substrate; and subjecting the coated substrate to a chemical treatment.

- 2. (original) The method of Claim 1, wherein the metal substrate is selected from the group consisting of aluminum, steel, titanium and alloys thereof.
- 3. (original) The method of Claim 1, wherein the maskant composition comprises at least one polymerizable monomer or oligomer and a photoinitiator.
- 4. (original) The method of Claim 3, wherein the at least one polymerizable monomer or oligomer is selected from the group consisting of acrylates, diacrylates, urethane acrylates or diacrylates, and mixtures thereof.
- 5. (original) The method of Claim 3, wherein the at least one polymerizable monomer or oligomer is selected from the group consisting of isobornyl acrylate, isooctyl acrylate, aliphatic urethane acrylate, aliphatic polyester-based urethane acrylate, aromatic urethane acrylate, siliconized urethane acrylate, polybutadiene urethane diacrylate, and mixtures thereof.
- 6. (previously presented) The method of Claim 3, wherein the photoinitiator is selected from the group consisting of 1-hydroxycyclohexyl phenyl ketone, bis (2,6-dimethoxybenzoyl)-2,4-,4-trimethylpentyl phosphine oxide, 2-hydroxy-2-methyl-1-phenyl-propan-1-one, trimethylbenzophenone, methylbenzophenone, bis acyl phosphine oxide, and mixtures thereof.

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7. (original) The method of Claim 3, wherein the maskant composition further comprises a

filler.

8. (original) The method of Claim 7, wherein the filler is selected from the group consisting of

talc and fumed silica.

9. (original) The method of Claim 1, wherein said exposing step comprises exposing the coated

substrate to ultraviolet radiation, black light radiation or visible light radiation.

10. (original) The method of Claim 1, wherein said exposing step comprises exposing the

coated substrate to ultraviolet radiation by moving the substrate past at least one ultraviolet light

or moving the ultraviolet light past the substrate.

11. (previously presented) The method of Claim 1, wherein said exposing step comprises

exposing the coated substrate to at least one ultraviolet radiation source having a wavelength of

about 200 nm to about 450 nm and an intensity of about 120 W/cm² to about 185 W/cm².

12. (original) The method of Claim 1, wherein said exposing step comprises exposing the

coated substrate to radiation at a rate of about 1 to about 10 feet of substrate/minute.

13. (original) The method of Claim 1, wherein the cured maskant film has a thickness of about

5 to about 20 mils.

14. (original) The method of Claim 1, wherein the cured maskant film has a peel strength of

about 3 oz./inch to about 30 oz./inch.

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15. (original) The method of Claim 1, wherein said applying step comprises applying the

maskant composition by spraying the composition, applying the composition with a roller,

applying the composition with a blade, or by dipping the substrate in the maskant composition.

16. (original) The method of Claim 1, wherein the metal substrate has a first side and a second

side, and said method comprises:

applying the maskant coating composition to at least a portion of the first side of

the metal substrate;

exposing the first coated side of the substrate to actinic radiation to cure the

maskant composition and form a cured peelable maskant film adhered to the first side of the

metal substrate;

applying the maskant coating composition to at least a portion of the second side

of the metal substrate; and

exposing the second coated side of the substrate to actinic radiation to cure the

maskant composition and form a cured peelable maskant film adhered to the second side of the

metal substrate.

17. (original) The method of Claim 1, wherein the chemical treatment is selected from the

group consisting of chemical milling, anodizing and deoxidizing.

18. (original) The method of Claim 1, wherein said subjecting step comprises immersing the

substrate in a chemical bath.

19. (original) A method of protecting selected portions of a metal substrate from chemical

exposure, comprising:

applying a maskant coating composition to at least a portion of the surface of a

metal substrate;

curing the maskant coating composition to form a cured peelable maskant film

adhered to the metal substrate;

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scribing a predetermined pattern of lines in the maskant film, the scribed lines

outlining portions of the maskant film to be removed;

applying a sealant composition to the scribed lines in the maskant film, the line

sealant composition being radiation curable and substantially solvent-free;

exposing the line sealant composition to actinic radiation to cure the line sealant

composition;

peeling off a portion of the maskant film outlined by the scribed lines; and

subjecting the coated substrate to a chemical treatment.

20. (original) The method of Claim 19, wherein the line sealant composition comprises at least

one polymerizable monomer or oligomer and a photoinitiator.

21. (original) The method of Claim 20, wherein the at least one polymerizable monomer or

oligomer is selected from the group consisting of acrylates, diacrylates, urethane acrylates or

diacrylates, and mixtures thereof.

22. (original) The method of Claim 20, wherein the at least one polymerizable monomer is

selected from the group consisting of isobornyl acrylate, isooctyl acrylate, urethane acrylate, and

mixtures thereof.

23. (original) The method of Claim 20, wherein the photoinitiator is selected from the group

consisting of bis acyl phosphine oxide, 1-hydroxycyclohexyl phenyl ketone, and mixtures

thereof.

24. (original) The method of Claim 20, wherein the line sealant composition further comprises a

wax and a synergist.

25. (original) The method of Claim 24, wherein the synergist is triethanolamine.

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26. (original) The method of Claim 19, wherein said step of applying the line sealant

composition comprises applying the sealant composition with a roller or applying the sealant

composition with cheesecloth.

27. (original) The method of Claim 19, wherein said step of exposing the line sealant

composition to actinic radiation comprises exposing the sealant composition to ultraviolet

radiation, black light radiation or visible light radiation.

28. (currently amended) The method of Claim 19, wherein said step of exposing the line sealant

composition to actinic radiation comprises exposing the sealant composition to a radiation source

emitting radiation at a wavelength of about 200 to about 450 nm and having an intensity of about

100 W/cm² to about 600 W/cm².

29. (original) The method of Claim 19, wherein the metal substrate is selected from the group

consisting of aluminum, steel, titanium and alloys thereof.

30. (original) The method of Claim 19, wherein said step of applying a maskant coating

composition comprises applying a radiation curable and substantially solvent-free maskant

composition and said step of curing the maskant composition comprises exposing the maskant

composition to actinic radiation to form a cured peelable maskant film adhered to the metal

substrate.

31. (original) The method of Claim 30, wherein the maskant composition comprises at least one

polymerizable monomer or oligomer and a photoinitiator.

32. (original) The method of Claim 31, wherein the at least one polymerizable monomer or

oligomer is selected from the group consisting of acrylates, diacrylates, urethane acrylates or

diacrylates, and mixtures thereof.

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33. (original) The method of Claim 31, wherein the at least one polymerizable monomer or oligomer is selected from the group consisting of isobornyl acrylate, isooctyl acrylate, aliphatic urethane acrylate, aliphatic polyester-based urethane acrylate, aromatic urethane acrylate, siliconized urethane acrylate, polybutadiene urethane diacrylate, and mixtures thereof.

- 34. (previously presented) The method of Claim 31, wherein the photoinitiator is selected from the group consisting of 1-hydroxycyclohexyl phenyl ketone, bis (2,6-dimethoxybenzoyl)-2,4-,4trimethylpentyl phosphine oxide, 2-hydroxy-2-methyl-1-phenyl-propan-1-one, trimethylbenzophenone, methylbenzophenone, bis acyl phosphine oxide, and mixtures thereof.
- 35. (original) The method of Claim 31, wherein the maskant composition further comprises a filler.
- 36. (original) The method of Claim 25, wherein the filler is selected from the group consisting of talc and fumed silica.
- 37. (original) The method of Claim 30, wherein said step of exposing the maskant composition to actinic radiation comprises exposing the maskant composition to ultraviolet radiation, black light radiation or visible light radiation.
- 38. (original) The method of Claim 30, wherein said step of exposing the maskant composition to actinic radiation comprises exposing the maskant composition to ultraviolet radiation by moving the substrate past at least one ultraviolet light or moving the ultraviolet light past the substrate.
- 39. (previously presented) The method of Claim 30, wherein said step of exposing the maskant composition to actinic radiation comprises exposing the maskant composition to at least one ultraviolet radiation source having a wavelength of about 200 nm to about 450 nm and an intensity of about 120 W/cm² to about 185 W/cm².

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40. (original) The method of Claim 30, wherein the maskant composition is exposed to radiation at a rate of about 1 to about 10 feet of substrate/minute.

41. (original) The method of Claim 30, wherein the cured maskant film has a thickness of about

5 to about 20 mils.

42. (original) The method of Claim 30, wherein the cured maskant film has a peel strength of

about 3 oz./inch to about 30 oz./inch.

43. (original) The method of Claim 30, wherein said step of applying a maskant composition

comprises applying the maskant composition by spraying the composition, applying the

composition with a roller, applying the composition with a blade, or by dipping the substrate in

the maskant composition.

44. (original) The method of Claim 30, wherein the metal substrate has a first side and a second

side, and said method comprises:

applying the maskant coating composition to at least a portion of the first side of

the metal substrate;

exposing the first coated side of the substrate to actinic radiation to cure the

maskant composition and form a cured peelable maskant film adhered to the first side of the

metal substrate;

applying the maskant coating composition to at least a portion of the second side

of the metal substrate; and

exposing the second coated side of the substrate to actinic radiation to cure the

maskant composition and form a cured peelable maskant film adhered to the second side of the

metal substrate.

45. (original) The method of Claim 19, wherein the chemical treatment is selected from the

group consisting of chemical milling, anodizing and deoxidizing.

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46. (original) The method of Claim 19, wherein said subjecting step comprises immersing the substrate in a chemical bath.

47. (original) The method of Claim 19, wherein said scribing step comprising scribing lines with a knife or a laser.

48. (original) A method of protecting selected portions of a metal substrate from chemical exposure, comprising:

applying a maskant coating composition to at least a portion of the surface of a metal substrate, the maskant composition being ultraviolet radiation curable and substantially solvent-free;

exposing the coated substrate to ultraviolet radiation to cure the maskant composition and form a cured peelable maskant film adhered to the metal substrate, the maskant having a peel strength of about 3 oz./inch to about 30 oz./inch;

scribing a predetermined pattern of lines in the maskant film, the scribed lines outlining portions of the maskant film to be removed;

applying a sealant composition to the scribed lines in the maskant film, the line sealant composition being radiation curable and substantially solvent-free:

exposing the line sealant composition to actinic radiation to cure the line sealant composition;

peeling off a portion of the maskant film outlined by the scribed lines; and immersing the substrate in a chemical milling bath.

49. (original) The method of Claim 48, wherein the metal substrate is an aluminum airplane fuselage panel.

50-63. (cancelled)